

IN THE SPECIFICATION

Please amend the specification as follows:

Replace the paragraph on page 10, between lines 8-15 of the specification with the following:

The calculation unit 18 may furthermore be adapted for the detection of explosives in the item of baggage 7 on the basis of the read-outs from the detector 8. This may be made automatically by reconstructing scatter functions from the read-outs of the detector lines and comparing them to tables including characteristic measurement values of explosives determined during preceding measurements. In case the calculation unit 18 determines that the measurement values read-out from the detector 8 match with characteristic measurement values of an explosive, the calculation unit 18 automatically outputs 22 ~~the determination and~~ activates an ~~activates~~ alarm via a loudspeaker 21.